

DIAGNOSTIC COMPOSITIONS, ELEMENTS, METHODS AND TEST
KITS FOR AMPLIFICATION AND DETECTION OF TWO OR MORE
DNA'S USING PRIMERS HAVING MATCHED MELTING TEMPERATURES

Abstract of the Disclosure

5 An aqueous composition containing primers
for opposing strands of two or more target nucleic
acids can be used in polymerase chain reaction to
provide simultaneously rapid and efficient
amplification and detection of those nucleic acids.
10 The primers for each target DNA differ in length by
no more than 5 nucleotides and have a T_m within the
range of from about 65 to about 74°C, while the T_m 's
are within about 5°C of each other. Such
compositions are useful in diagnostic test kits and
15 methods for amplification and detection of multiple
nucleic acids, or in "multiplexing", using multiple
capture probes. All of the capture probes have T_m 's
which are greater than 50°C and are within 15°C of
each other.

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